

NAD

T750 Surround Sound Receiver



- 3 x 50 Watts; in excess of 40 amps peak current capability! • 2 x 30 Watts for rear
 - Impedance Sensing Circuitry (ISC) • 5.1 input for external decoder
- Pre-outs for all 5 channels • Subwoofer output • 4 Audio inputs; 2 tape outputs
 - 4 Video inputs; 1 VCR output • ANALOG Dolby Pro Logic decoding
 - Hall Music surround mode • Tone Control Defeat button
 - Gold Plated Sockets throughtout • 30 presets
 - Soft Clipping • System Remote Control • NAD-Link

Most A/V receivers available on the market today focus predominantly on the Video and Surround Sound aspects, leaving the audio circuitry almost as an afterthought. NAD firmly believes that there are many people for whom music will always come first. With NAD's reputation for high value / high performance it was obvious that the Model T750 would have to please Audiophiles and Videophiles alike.

Design

By doing away with many costly and superfluous features, NAD's engineers concentrated only on the truly important parts of an A/V receiver. The NAD Model T750 uses discrete output stages only, including the surround channels. The benefits of this approach have been proven over the years in many acclaimed NAD amplifiers and receivers. The integrated output modules favored by so many other designs will deliver a decent amount of power under laboratory conditions, driving an 8 ohms resistor, but can have great difficulties in driving real-world loudspeakers.

Impedance Sensing Circuitry (ISC)

The new Impedance Sensing Circuitry (ISC) topology designed by Bjørn Erik Edvardsen allows the T750 to deliver maximum performance under virtually any circumstance, independent of the loudspeakers it is driving. The circuitry automatically recognizes the impedance characteristics of the loudspeaker and will then adjust its power supply settings to best cope with that specific load. This also gives it an unusual characteristic compared to traditional amplifiers when measuring its continuous output power; the RMS output power remains the same at 50 Watts with either an eight or a four ohm load. This is not unusual for NAD however.

NAD takes a stance to the mindless "brochure power" approach which doesn't give a realistic indication of an amplifier's true capabilities. Instead, the ISC topology is a practical approach to enable an amplifier to easily deal with dynamics and difficult loads. More meaningful are the T750's dynamic capabilities; up to 160 Watts into 2 ohms and up to 40 amps current capability.

ANALOG Dolby Pro Logic decoding

Many manufacturers of AV products boast about achieving Dolby Pro Logic decoding in the digital domain for their products. While it is true that this may bring some advantages, NAD found that at this price level Analog decoding is much preferable. The reasons are very simple: First, to do decoding in digital domain, an analog Dolby Pro Logic source has to go through a stereo Analog-to-Digital converter to make the signal digital so the signal can be decoded. After decoding, 4 independent channels need to be converted back to analog which requires 2 stereo Digital-to-Analog decoders. It is a well-known fact that the sound quality of CD players depends a great deal on the single stereo Digital-to-Analog converter that is required. With three times the amount of converters required for Pro Logic decoding, the potential degradation in sound quality is tremendous. By staying in the analog domain for Dolby Pro Logic decoding, the signal stays clean and crisp, without the harsh, digital artifacts that can mar the performance of so many other Surround Sound receivers.

Flexibility

As one would expect from any NAD component, the Model T750 offers great flexibility; 4 video, and 4 audio inputs allow you to connect all your sources with ease.

Hooking up a DVD player with digital surround is a snap with the provided 5.1 input, making the T750 compatible with all surround formats, both current and future. With pre-amplifier outputs for all channels you can easily upgrade your output power too.

To ensure long-term contact reliability, all speaker terminals are of the robust binding post variety rather than the usual spring clips and all other audio sockets are gold plated.

The remote control handset supplied with the Model T750 also has controls for NAD CD players or changers and a (dubbing) cassette deck. With NAD Link it is possible to remote control other NAD products which do not have their own remote control (NAD Cassette Deck Model 616, for instance) from the T750's remote control.

Ease of use

Ease of use is another key factor for NAD products and the Model T750 is no exception. The built-in test tone generator - accessible by remote control - allows for accurate calibrating of the Front, Center and Surround speakers.

Thirty presets can be programmed at random with either AM or FM stations. Three banks of 10 stations means you can organize the presets to personal preference or program type.

Rather than providing many different surround modes (Church, Jazz, Stadium, etc.) which makes so many other receivers cluttered and over

complicated, the engineers concentrated on perfecting the Dolby Pro Logic decoding and steering. For music the Hall mode can be engaged, adding a natural level of reverberance and life.

In keeping with the NAD tradition, the Model T750 provides performance, simplicity and value which is hard to match. This new addition to the NAD line of products is equally at home in a system for discerning music lovers, as it is in a system for those looking to get the best out of Dolby Surround Laser Discs, Videos and Compact Discs.

PRELIMINARY SPECIFICATIONS - NAD MODEL T750

Amplifier Section

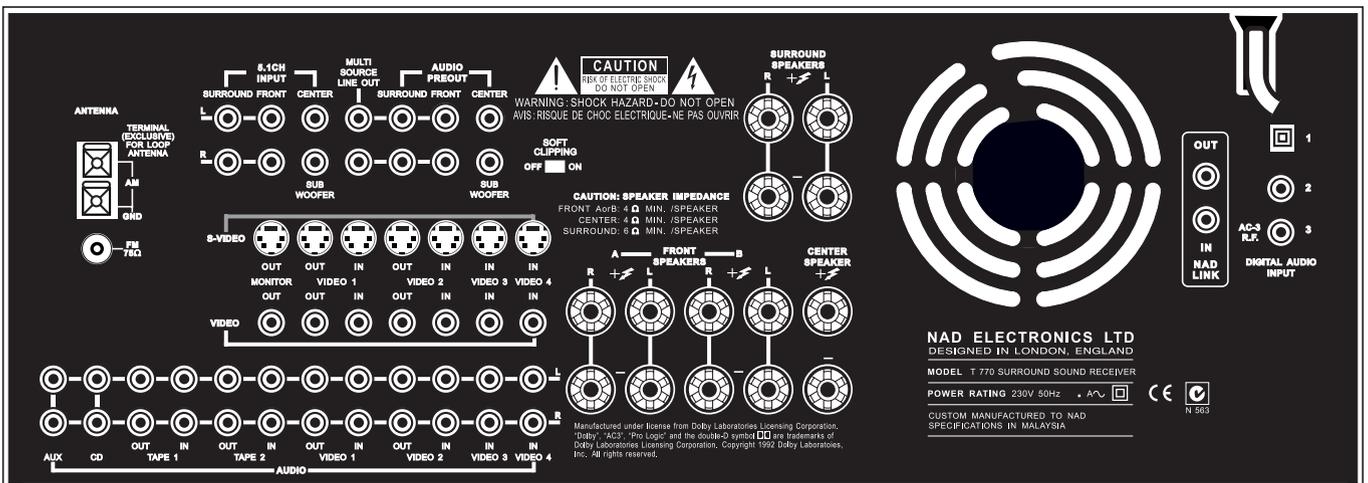
Power Output: Stereo Mode (8 Ω within rated distortion)		2 x 50 W (16.9 dBW)
IHF dynamic power	8 Ω	2 x 56 W (17.5 dBW)
	4Ω	2 x 89 W (19.5 dBW)
	2Ω	2 x 140 W (21.5 dBW)
	Surround Mode (L, C, R)	3 x 50 W (16.9 dBW)
	(LS + RS)	2 x 30 W (14.8 dBW)
Total Harmonic Distortion	at rated power (Front)	0.08%
IM Distortion	at rated power (Front)	0.08%
Sensitivity and Impedance		150 mV / 50 kΩ
Frequency Response	5 to 50,000 Hz	±0.5 dB
Signal to Noise Ratio	Line Ref 70 W / 8 Ω	106 dB (IHF A)
	Ref 1 W / 8 Ω	81 dB (IHF A)

Tuner Section

Input Sensitivity	Mono	1.3µV
	Stereo	2.5µV
Frequency Response	30Hz - 15kHz:	±1.5 dB
Total Harmonic Distortion	Mono	0.15%
	Stereo	0.25%
Stereo Separation	1 kHz	45 dB
Signal to Noise Ratio	Mono	73 dB
	Stereo	67 dB

Physical Specifications

Dimensions (W x H x D)	17.14"x 5.12"x 12.41" / 435 x 130 x 315 mm
Net weight	21.16 lbs / 9.6kg
Shipping weight	23.8 lbs / 10.8kg



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